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FORM PTO-1449

SECOND SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.  
1533.1010002/SRL/CMB

APPLICATION NO.  
09/621,448

APPLICANT  
O'DONOHUE et al.

FILING DATE  
July 21, 2000

GROUP  
1632

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
DJS	AL1	WO 94/10325	05/11/1994	WIPO			Yes No
DJS	AM1	EP 0 733 712 A1	09/25/1996	Europe			Yes No
DJS	AN1	FR 2 772 788	06/25/1999	France			Yes X No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR		
WS	AS	5	Boles, E. et al., "The role of the NAD-dependent glutamate dehydrogenase in restoring growth on glucose of a <i>Saccharomyces cerevisiae</i> phosphoglucose isomerase mutant," <i>Eur. J. Biochem.</i> 217:469-477, Federation of European Biochemical Societies (1993).
DJS	AT	5	González Siso, M.I. et al.; "Reoxidation of the NADPH produced by the pentose phosphate pathway is necessary for the utilization of glucose by <i>Kluyveromyces lactis</i> rag2 mutants," <i>FEBS Lett.</i> 387:7-10, Federation of European Biochemical Societies (1996).

EXAMINER *David J. Steadman*

DATE CONSIDERED  
*04-02-01*

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



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	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DJS	AR	6	Moritz, B. et al., "Kinetic properties of the glucose-6-phosphate and 6-phosphogluconate dehydrogenases from <i>Corynebacterium glutamicum</i> and their application for predicting pentose phosphate pathway flux in vivo," <i>Eur. J. Biochem.</i> 267:3442-3452, Federation of European Biochemical Societies (June 2000).
DJS	AS	6	Shi, H. et al., "Effect of Modifying Metabolic Network on Poly-3-Hydroxybutyrate Biosynthesis in Recombinant <i>Escherichia coli</i> ," <i>J. Biosci. Bioeng.</i> 87:666-677, Elsevier Science (June 1999).
DJS	AT	6	Vallino, J.J. and Stephanopoulos, G., "Carbon Flux Distributions at the Pyruvate Branch Point in <i>Corynebacterium glutamicum</i> during Lysine Overproduction," <i>Biotechnol. Prog.</i> 10:320-326, American Chemical Society and American Institute of Chemical Engineers (1994).

EXAMINER

*Davis J. Seadman*

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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DJS	AR	7	Vallino, J.J. and Stephanopoulos, G., "Carbon Flux Distributions at the Glucose 6-Phosphate Branch Point in <i>Corynebacterium glutamicum</i> during Lysine Overproduction," <i>Biotechnol. Prog.</i> 10:327-334, American Chemical Society and American Institute of Chemical Engineers (1994).
DJS	AS	7	Walfridsson, M. et al., "Xylose-Metabolizing <i>Saccharomyces cerevisiae</i> Strains Overexpressing the <i>TKL1</i> and <i>TAL1</i> Genes Encoding the Pentose Phosphate Pathway Enzymes Transketolase and Transaldolase," <i>Appl. Environ. Microbiol.</i> 61:4184-4190, American Society for Microbiology (1995).
DJS	AT	7	Patent Abstracts of Japan, Publication No. 09224661, published September 2, 1997.

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David J. Steadman

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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DJS	AR	8	Patent Abstracts of Japan, Publication No. 09224662, published September 2, 1997.
DJS	AS	8	Dialog File 351, Accession No. 12615741, Derwent WPI English language abstract for FR 2 772 788 (Document AN1).
DJS	AT	8	International Search Report for International Application No. PCT/US00/19914, mailed December 28, 2000.

EXAMINER

*Dariusz Steadman*

DATE CONSIDERED

04-02-00

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1533.1010002APPLICATION NO.  
To be assignedAPPLICANT  
O'Donohue *et al.*FILING DATE  
HerewithGROUP  
To be assigned
 JCS77 U.S. PTO  
 09/62/1448  
 07/21/00

## U.S. PATENT DOCUMENTS

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	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DJS	AR	1	Berry, A., "Improving production of aromatic compounds in <i>Escherichia coli</i> by metabolic engineering," <i>TIBTECH</i> 14:250-256 (1996)
DJS	AS	1	Flores, N. <i>et al.</i> , "Pathway engineering for the production of aromatic compounds in <i>Escherichia coli</i> ," <i>Nature Biotechnol.</i> 14:620-623 (1996)
DJS	AT	1	Inbar, L. <i>et al.</i> , "Natural-abundance <sup>13</sup> C nuclear magnetic resonance studies of regulation and overproduction of L-lysine by <i>Brevibacterium flavum</i> ," <i>Eur. J. Biochem.</i> 149:601-607 (1985)

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03-28-01

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HerewithGROUP  
To be assignedJc877 U.S. PTO  
09/621448

## U.S. PATENT DOCUMENTS

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	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DJS	AR	2	Ishino, S. <i>et al.</i> , " <sup>13</sup> C Nuclear Magnetic Resonance Studies of Glucose Metabolism in L-Glutamic Acid and L-Lysine Fermentation by <i>Corynebacterium Glutamicum</i> ," J. Gen. Appl. Microbiol. 37:157-165 (1991)
DJS	AS	2	Kinoshita, S. <i>et al.</i> , "L-Lysine Production Using Microbial Auxotroph," J. Gen. Appl. Microbiol. 4:128-129 (1958)
DJS	AT	2	Marx, A. <i>et al.</i> , "Determination of the Fluxes in the Central Metabolism of <i>Corynebacterium glutamicum</i> by Nuclear Magnetic Resonance Spectroscopy Combined with Metabolite Balancing," Biotechnol. Bioengineering 49:111-129 (1996)

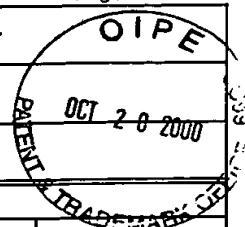
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
DJS	AA1	5,631,150	05/20/1997	Harkki <i>et al.</i>	435	105	01/03/1995
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	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DJS	AR	4	Dominguez, H. <i>et al.</i> , "Carbon-flux distribution in the central metabolic pathways of <i>Corynebacterium glutamicum</i> during growth on fructose," <i>Eur. J. Biochem.</i> 254:96-102 (May 1998)
DJS	AS	4	Fitzpatrick, R. <i>et al.</i> , "Construction and characterization of <i>recA</i> mutant strains of <i>Corynebacterium glutamicum</i> and <i>Brevibacterium lactofermentum</i> ," <i>Appl. Microbiol. Biotechnol.</i> 42:575-580 (1994)
DJS	AT	4	O'Gara, J.P. and L.K. Dunican, "Direct Evidence for a Constitutive Internal Promoter in the Tryptophan Operon of <i>Corynebacterium glutamicum</i> ," <i>Biochem. &amp; Biophys. Res. Comm.</i> 203:820-827 (1994)

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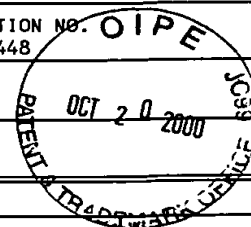
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015	AR	5	Vallino, J.J. and G. Stephanopoulos, "Metabolic Flux Distributions in <i>Corynebacterium glutamicum</i> During Growth and Lysine Overproduction," <i>Biotechnol. &amp; Bioengineering</i> 41:633-646 (1993)
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David J. Friedman

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